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NEWS 4 May 12 Polymer links for the POLYLINK command completed in REGISTRY
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SDIs in Cplus
NEWS 6 May 27 Cplus super roles and document types searchable in REGISTRY
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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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| => file medline, agricola, caba, cplus, biosis, biotechno | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.21 | 0.21 |

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FILE 'BIOTECHNO' ENTERED AT 12:02:11 ON 02 AUG 2004
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=> s (steele, c? or steele c?)/au
L1 968 (STEELE, C? OR STEELE C?)/AU

=> s (bohlmann, j? or bohlmann j?)/au
L2 168 (BOHLMANN, J? OR BOHLMANN J?)/AU

=> s (croteau, r? or croteau r?)/au
L3 1420 (CROTEAU, R? OR CROTEAU R?)/AU

=> s (phillips, m? or phillips m?)/au
L4 8033 (PHILLIPS, M? OR PHILLIPS M?)/AU

=> s l1 and l2 and l3 and l4
L5 0 L1 AND L2 AND L3 AND L4

=> s l1 or l2 or l3 or l4
L6 10492 L1 OR L2 OR L3 OR L4

=> s l6 and (fir or monoterpene or camphene)
L7 784 L6 AND (FIR OR MONOTERPENE OR CAMPHENE)

=> s l7 and monoterpene(w)synthase
L8 104 L7 AND MONOTERPENE(W) SYNTHASE

=> duplicate remove l8
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L8
L9 44 DUPLICATE REMOVE L8 (60 DUPLICATES REMOVED)

=> d l9 1-10 ti

L9 ANSWER 1 OF 44 CAPLUS COPYRIGHT 2004 ACS on STN
TI Induction of volatile terpene biosynthesis and diurnal emission by methyl jasmonate in foliage of Norway spruce

L9 ANSWER 2 OF 44 MEDLINE on STN DUPLICATE 1
TI (E)-beta-ocimene and myrcene synthase genes of floral scent biosynthesis in snapdragon: function and expression of three terpene synthase genes of a new terpene synthase subfamily.

L9 ANSWER 3 OF 44 MEDLINE on STN DUPLICATE 2
TI A cDNA clone for 3-carene synthase from Salvia stenophylla.

L9 ANSWER 4 OF 44 MEDLINE on STN DUPLICATE 3
TI Functional identification of AtTPS03 as (E)-beta-ocimene synthase: a

monoterpene synthase catalyzing jasmonate- and wound-induced volatile formation in *Arabidopsis thaliana*.

- L9 ANSWER 5 OF 44 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 4
- TI cDNA isolation, functional expression, and characterization of (+)-alpha-pinene synthase and (-)-alpha-pinene synthase from loblolly pine (*Pinus taeda*): stereocontrol in pinene biosynthesis.
- L9 ANSWER 6 OF 44 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
- TI Alternative termination chemistries utilized by **monoterpene** cyclases: chimeric analysis of bornyl diphosphate, 1,8-cineole, and sabinene synthases.
- L9 ANSWER 7 OF 44 MEDLINE on STN DUPLICATE 5
- TI A novel sex-specific and inducible **monoterpene synthase** activity associated with a pine bark beetle, the pine engraver, *Ips pini*.
- L9 ANSWER 8 OF 44 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Traumatic resin defense in Norway spruce (*Picea abies*): Methyl jasmonate-induced terpene synthase gene expression, and cDNA cloning and functional characterization of (+)-3-carene synthase
- L9 ANSWER 9 OF 44 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Methyl jasmonate induces traumatic resin ducts, terpenoid resin biosynthesis, and terpenoid accumulation in developing xylem of Norway spruce stems
- L9 ANSWER 10 OF 44 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Mechanism of **monoterpene** cyclization: stereochemistry of the transformation of noncyclizable substrate analogs by recombinant (-)-limonene synthase, (+)-bornyl diphosphate synthase, and (-)-pinene synthase

=> d his

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- L2 168 S (BOHLMANN, J? OR BOHLMANN J?)/AU
- L3 1420 S (CROTEAU, R? OR CROTEAU R?)/AU
- L4 8033 S (PHILLIPS, M? OR PHILLIPS M?)/AU
- L5 0 S L1 AND L2 AND L3 AND L4
- L6 10492 S L1 OR L2 OR L3 OR L4
- L7 784 S L6 AND (FIR OR MONOTERPENE OR CAMPHENE)
- L8 104 S L7 AND MONOTERPENE(W) SYNTHASE
- L9 44 DUPLICATE REMOVE L8 (60 DUPLICATES REMOVED)

=> s l9 and camphene(w) synthase

- L10 2 L9 AND CAMPHENE(W) SYNTHASE

=> s l6 and camphene(w) synthase

- L11 5 L6 AND CAMPHENE(W) SYNTHASE

=> s l10 or l11

- L12 5 L10 OR L11

=> duplicate remove l12
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, BIOTECHNO'
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PROCESSING COMPLETED FOR L12
L13 2 DUPLICATE REMOVE L12 (3 DUPLICATES REMOVED)

=> d l13 1-2 ti

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
TI Cloning and sequences of **monoterpene** synthases from grand
fir (*Abies grandis*) and their use for alteration of
monoterpene levels and composition of plant seeds

L13 ANSWER 2 OF 2 MEDLINE on STN DUPLICATE 1
TI cDNA cloning, characterization, and functional expression of four new
monoterpene synthase members of the Tpsd gene family
from grand **fir** (*Abies grandis*).

=> d l13 1-2 bib

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:78490 CAPLUS
DN 134:143867
TI Cloning and sequences of **monoterpene** synthases from grand
fir (*Abies grandis*) and their use for alteration of
monoterpene levels and composition of plant seeds
IN **Steele, Christopher L.; Bohlmann, Joerg; Croteau,**
Rodney B.; Phillips, Michael A.
PA Washington State University Research Foundation, USA
SO PCT Int. Appl., 175 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|--|----------|-----------------|----------|
| PI | WO 2001007565 | A2 | 20010201 | WO 2000-US20264 | 20000724 |
| | WO 2001007565 | A3 | 20020510 | | |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | WO 9902030 | A1 | 19990121 | WO 1998-US14528 | 19980710 |
| | W: | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | US 6429014 | B1 | 20020806 | US 1999-360545 | 19990726 |
| | AU 2000062382 | A5 | 20010213 | AU 2000-62382 | 20000724 |
| | EP 1220899 | A2 | 20020710 | EP 2000-948965 | 20000724 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL | | | |
| PRAI | US 1997-52249P | A2 | 19970711 | | |
| | WO 1998-US14528 | A2 | 19980710 | | |
| | US 1999-360545 | A2 | 19990726 | | |

L13 ANSWER 2 OF 2 MEDLINE on STN DUPLICATE 1
 AN 1999373092 MEDLINE
 DN PubMed ID: 10441373
 TI cDNA cloning, characterization, and functional expression of four new
monoterpene synthase members of the Tpsd gene family
 from grand **fir** (*Abies grandis*).
 AU **Bohlmann J; Phillips M; Ramachandiran V; Katoh S;**
Croteau R
 CS Institute of Biological Chemistry and Department of Biochemistry and
 Biophysics, Washington State University, Pullman, Washington, 99164-6340,
 USA.
 SO Archives of biochemistry and biophysics, (1999 Aug 15) 368 (2) 232-43.
 Journal code: 0372430. ISSN: 0003-9861.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199909
 ED Entered STN: 19990925
 Last Updated on STN: 19990925
 Entered Medline: 19990909

=> d his

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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT
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L1 968 S (STEELE, C? OR STEELE C?)/AU
 L2 168 S (BOHLMANN, J? OR BOHLMANN J?)/AU
 L3 1420 S (CROTEAU, R? OR CROTEAU R?)/AU
 L4 8033 S (PHILLIPS, M? OR PHILLIPS M?)/AU
 L5 0 S L1 AND L2 AND L3 AND L4
 L6 10492 S L1 OR L2 OR L3 OR L4
 L7 784 S L6 AND (FIR OR MONOTERPENE OR CAMPHENE)
 L8 104 S L7 AND MONOTERPENE(W)SYNTHASE
 L9 44 DUPLICATE REMOVE L8 (60 DUPLICATES REMOVED)
 L10 2 S L9 AND CAMPHENE(W)SYNTHASE
 L11 5 S L6 AND CAMPHENE(W)SYNTHASE
 L12 5 S L10 OR L11
 L13 2 DUPLICATE REMOVE L12 (3 DUPLICATES REMOVED)

=> s camphene(s)synthase

L14 16 CAMPHENE(S) SYNTHASE

=> s l14 not l12

L15 11 L14 NOT L12

=> duplicate remove l15

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'
 KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L15

L16 6 DUPLICATE REMOVE L15 (5 DUPLICATES REMOVED)

=> d l16 1-6 ti

L16 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Mechanism of monoterpene cyclization: stereochemistry of the
 transformation of noncyclizable substrate analogs by recombinant
 (-)-limonene synthase, (+)-bornyl diphosphate synthase, and (-)-pinene
 synthase

L16 ANSWER 2 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 1
 TI Monoterpene synthase activities in leaves of *Picea abies* (L.) Karst. and *Quercus ilex* L.

L16 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Monoterpene synthases from common sage and their cDNA isolation, characterization, and functional expression

L16 ANSWER 4 OF 6 MEDLINE on STN DUPLICATE 2
 TI Monoterpene synthases from common sage (*Salvia officinalis*). cDNA isolation, characterization, and functional expression of (+)-sabinene synthase, 1,8-cineole synthase, and (+)-bornyl diphosphate synthase.

L16 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Sesquiterpene synthases from grand fir (*Abies grandis*). Comparison of constitutive and wound-induced activities, and cDNA isolation, characterization, and bacterial expression of δ -selinene synthase and γ -humulene synthase

L16 ANSWER 6 OF 6 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
 TI Monoterpene biosynthesis: isotope effects associated with bicyclic olefin formation catalyzed by pinene synthases from sage (*Salvia officinalis*).

=> d l16 1-6 bib

L16 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:856562 CAPLUS
 DN 138:183016
 TI Mechanism of monoterpene cyclization: stereochemistry of the transformation of noncyclizable substrate analogs by recombinant (-)-limonene synthase, (+)-bornyl diphosphate synthase, and (-)-pinene synthase
 AU Schwab, W.; Williams, D. C.; Croteau, R.
 CS Lehrstuhl fur Lebensmittelchemie, Universitat Wurzburg, Wurzburg, 97074, Germany
 SO Journal of Molecular Catalysis B: Enzymatic (2002), 19-20, 415-421
 CODEN: JMCEF8; ISSN: 1381-1177
 PB Elsevier Science B.V.
 DT Journal
 LA English
 RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 1
 AN 2000:117905 CABA
 DN 20000613042
 TI Monoterpene synthase activities in leaves of *Picea abies* (L.) Karst. and *Quercus ilex* L
 AU Fischbach, R. J.; Zimmer, I.; Steinbrecher, R.; Pfichner, A.; Schnitzler, J. P.
 CS Fraunhofer-Institut fur Atmospharische Umweltforschung, Kreuzeckbahnstr, 19, D-82467 Garmisch-Partenkirchen, Germany.
 SO Phytochemistry, (2000) Vol. 54, No. 3, pp. 257-265. 32 ref.
 ISSN: 0031-9422
 DT Journal
 LA English
 ED Entered STN: 20001006
 Last Updated on STN: 20001006

L16 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:223012 CAPLUS

DN 130:248763
 TI Monoterpene synthases from common sage and their cDNA isolation,
 characterization, and functional expression
 IN Croteau, Rodney Bruce; Wise, Mitchell Lynn; Katahira, Eva Joy; Savage,
 Thomas Jefferson
 PA Washington State University Research Foundation, USA
 SO PCT Int. Appl., 260 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 9915624 | A1 | 19990401 | WO 1998-US20120 | 19980925 |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, | | | | |
| | DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, | | | | |
| | KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, | | | | |
| | NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, | | | | |
| | UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, | | | | |
| | FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, | | | | |
| | CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | US 5891697 | A | 19990406 | US 1997-937540 | 19970925 |
| | CA 2304799 | AA | 19990401 | CA 1998-2304799 | 19980925 |
| | AU 9895096 | A1 | 19990412 | AU 1998-95096 | 19980925 |
| | AU 741619 | B2 | 20011206 | | |
| | EP 1017788 | A1 | 20000712 | EP 1998-948548 | 19980925 |
| | R: BE, CH, DE, FR, GB, LI, NL | | | | |
| PRAI | US 1997-937540 | A2 | 19970925 | | |
| | WO 1998-US20120 | W | 19980925 | | |

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 6 MEDLINE on STN DUPLICATE 2
 AN 1998279000 MEDLINE
 DN PubMed ID: 9614092
 TI Monoterpene synthases from common sage (*Salvia officinalis*). cDNA
 isolation, characterization, and functional expression of (+)-sabinene
 synthase, 1,8-cineole synthase, and (+)-bornyl diphosphate synthase.
 AU Wise M L; Savage T J; Katahira E; Croteau R
 CS Institute of Biological Chemistry, and the Department of Biochemistry and
 Biophysics, Washington State University, Pullman, Washington 99164-6340,
 USA.
 NC GM-31354 (NIGMS)
 SO Journal of biological chemistry, (1998 Jun 12) 273 (24) 14891-9.
 Journal code: 2985121R. ISSN: 0021-9258.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 OS GENBANK-AF051899; GENBANK-AF051900; GENBANK-AF051901
 EM 199807
 ED Entered STN: 19980723
 Last Updated on STN: 19980723
 Entered Medline: 19980713

L16 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:74560 CAPLUS
 DN 128:241051
 TI Sesquiterpene synthases from grand fir (*Abies grandis*). Comparison of
 constitutive and wound-induced activities, and cDNA isolation,
 characterization, and bacterial expression of δ -selinene synthase
 and γ -humulene synthase
 AU Steele, Christopher L.; Crock, John; Bohlmann, Jorg; Croteau, Rodney
 CS Inst. Biological Chem., Program Plant Physiol., Dep. Biochem. Biophysics,

Washington State Univ., Pullman, WA, 99164-6340, USA
SO Journal of Biological Chemistry (1998), 273(4), 2078-2089
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD
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AN 94:48651 AGRICOLA
DN IND20400880
TI Monoterpene biosynthesis: isotope effects associated with bicyclic olefin
formation catalyzed by pinene synthases from sage (*Salvia officinalis*).
AU Wagschal, K.C.; Pyun, H.J.; Coates, R.M.; Croteau, R.
AV DNAL (381 Ar2)
SO Archives of biochemistry and biophysics, Feb 1, 1994. Vol. 308, No. 2. p.
477-487
Publisher: Orlando, Fla. : Academic Press.
CODEN: ABBIA4; ISSN: 0003-9861
NTE Includes references
CY Florida; United States
DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

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L2 168 S (BOHLMANN, J? OR BOHLMANN J?)/AU
L3 1420 S (CROTEAU, R? OR CROTEAU R?)/AU
L4 8033 S (PHILLIPS, M? OR PHILLIPS M?)/AU
L5 0 S L1 AND L2 AND L3 AND L4
L6 10492 S L1 OR L2 OR L3 OR L4
L7 784 S L6 AND (FIR OR MONOTERPENE OR CAMPHENE)
L8 104 S L7 AND MONOTERPENE(W) SYNTHASE
L9 44 DUPLICATE REMOVE L8 (60 DUPLICATES REMOVED)
L10 2 S L9 AND CAMPHENE(W) SYNTHASE
L11 5 S L6 AND CAMPHENE(W) SYNTHASE
L12 5 S L10 OR L11
L13 2 DUPLICATE REMOVE L12 (3 DUPLICATES REMOVED)
L14 16 S CAMPHENE(S) SYNTHASE
L15 11 S L14 NOT L12
L16 6 DUPLICATE REMOVE L15 (5 DUPLICATES REMOVED)

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

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SDIs in Cplus
NEWS 6 May 27 Cplus super roles and document types searchable in REGISTRY
NEWS 7 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
and WATER from CSA now available on STN(R)
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resulting in a closer connection to BABS
NEWS 10 Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction
with the 228th ACS National Meeting
NEWS 11 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display
fields
NEWS 12 AUG 02 Cplus and CA patent records enhanced with European and Japan
Patent Office Classifications
NEWS 13 AUG 02 STN User Update to be held August 22 in conjunction with the
228th ACS National Meeting
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AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004

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=> file uspatfull

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST | 0.21 | 0.21 |

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 29 Jul 2004 (20040729/PD)

FILE LAST UPDATED: 29 Jul 2004 (20040729/ED)

HIGHEST GRANTED PATENT NUMBER: US6769133

HIGHEST APPLICATION PUBLICATION NUMBER: US2004148672

CA INDEXING IS CURRENT THROUGH 29 Jul 2004 (20040729/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 29 Jul 2004 (20040729/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2004

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2004

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>>> USPAT2 is now available.  USPATFULL contains full text of the    <<<
>>> original, i.e., the earliest published granted patents or      <<<
>>> applications.  USPAT2 contains full text of the latest US      <<<
>>> publications, starting in 2001, for the inventions covered in   <<<
>>> USPATFULL.  A USPATFULL record contains not only the original  <<<
>>> published document but also a list of any subsequent           <<<
>>> publications.  The publication number, patent kind code, and   <<<
>>> publication date for all the US publications for an invention  <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc.                                                       <<<
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>>> USPATFULL and USPAT2 can be accessed and searched together     <<<
>>> through the new cluster USPATALL.  Type FILE USPATALL to      <<<
>>> enter this cluster.                                           <<<
>>>                                                                <<<
>>> Use USPATALL when searching terms such as patent assignees,   <<<
>>> classifications, or claims, that may potentially change from  <<<
>>> the earliest to the latest publication.                        <<<
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (steele, c? or steele c?)/au

66 STEELE, C?/AU

66 STEELE C?/AU

L1 66 (STEELE, C? OR STEELE C?)/AU

=> s (bohlmann, j?or bohlmann j?)/au

'?' TRUNCATION SYMBOL NOT VALID WITHIN 'BOHLMANN, J?OR BOHLMANN J?'

The truncation symbol ? may be used only at the end of a search term. To specify a variable character within a word use '!', e.g., 'wom!n' to search for both 'woman' and 'women'. Enter "HELP TRUNCATION" at an arrow prompt (=>) for more information.

=> s (bohlmann, j? or bohlmann j?)/au

11 BOHLMANN, J?/AU

11 BOHLMANN J?/AU

L2 11 (BOHLMANN, J? OR BOHLMANN J?)/AU

=> s (croteau, r? or croteau r?)/au

37 CROTEAU, R?/AU

37 CROTEAU R?/AU

L3 37 (CROTEAU, R? OR CROTEAU R?)/AU

=> s (phillips, m? or phillips m?)/au

317 PHILLIPS, M?/AU

317 PHILLIPS M?/AU

L4 317 (PHILLIPS, M? OR PHILLIPS M?)/AU

=> s l1 and l2 and l3 and l4

L5 1 L1 AND L2 AND L3 AND L4

=> d l5 bib

L5 ANSWER 1 OF 1 USPATFULL on STN
AN 2003:251075 USPATFULL
TI Monoterpene synthases from grand fir (abies grandis)
IN **Steele, C.L.**, Ardmore, OK, UNITED STATES
 Bohlmann, Joerg, Jena, GERMANY, FEDERAL REPUBLIC OF
 Croteau, Rodney B., Pullman, WA, UNITED STATES
 Phillips, Michael A., Moscow, ID, UNITED STATES
PA Washington State University Research Foundation (U.S. corporation)
PI US 2003175861 A1 20030918
AI US 2001-25145 A1 20011219 (10)
RLI Division of Ser. No. US 1999-360545, filed on 26 Jul 1999, GRANTED, Pat.
 No. US 6429014 Continuation-in-part of Ser. No. WO 1998-US14528, filed
 on 10 Jul 1998, PENDING
PRAI US 1997-52249P 19970711 (60)
DT Utility
FS APPLICATION
LREP CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC, 1420 FIFTH AVENUE, SUITE
 2800, SEATTLE, WA, 98101-2347
CLMN Number of Claims: 90
ECL Exemplary Claim: 1
DRWN 25 Drawing Page(s)
LN.CNT 5867
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s 11 or 12 or 13 or 14

L6 422 L1 OR L2 OR L3 OR L4

=> s 16 and camphene(w) synthase

1261 CAMPHENE

15368 SYNTHASE

3 CAMPHENE(W) SYNTHASE

L7 2 L6 AND CAMPHENE(W) SYNTHASE

=> d 17 1-2 bib

L7 ANSWER 1 OF 2 USPATFULL on STN
AN 2003:251075 USPATFULL
TI Monoterpene synthases from grand fir (abies grandis)
IN **Steele, C.L.**, Ardmore, OK, UNITED STATES
 Bohlmann, Joerg, Jena, GERMANY, FEDERAL REPUBLIC OF
 Croteau, Rodney B., Pullman, WA, UNITED STATES
 Phillips, Michael A., Moscow, ID, UNITED STATES
PA Washington State University Research Foundation (U.S. corporation)
PI US 2003175861 A1 20030918
AI US 2001-25145 A1 20011219 (10)
RLI Division of Ser. No. US 1999-360545, filed on 26 Jul 1999, GRANTED, Pat.
 No. US 6429014 Continuation-in-part of Ser. No. WO 1998-US14528, filed
 on 10 Jul 1998, PENDING
PRAI US 1997-52249P 19970711 (60)
DT Utility
FS APPLICATION
LREP CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC, 1420 FIFTH AVENUE, SUITE
 2800, SEATTLE, WA, 98101-2347
CLMN Number of Claims: 90
ECL Exemplary Claim: 1
DRWN 25 Drawing Page(s)
LN.CNT 5867
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 2 USPATFULL on STN
AN 2002:194743 USPATFULL
TI Monoterpene synthases from grand fir (Abies grandis)
IN **Steele, C. L.**, Ardmore, OK, United States

Bohlmann, Joerg, Jena, GERMANY, FEDERAL REPUBLIC OF
Croteau, Rodney B., Pullman, WA, United States
PA Washington State University Research Foundation, Pullman, WA, United
States (U.S. corporation)
PI US 6429014 B1 20020806
AI US 1999-360545 19990726 (9)
RLI Continuation-in-part of Ser. No. WO 1998-US14528, filed on 10 Jul 1998
PRAI US 1997-52249P 19970711 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Bui, Phuong T.
LREP Christensen O'Connor Johnson Kindness PLLC
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 25 Drawing Figure(s); 25 Drawing Page(s)
LN.CNT 5595
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

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L1 66 S (STEELE, C? OR STEELE C?)/AU
L2 11 S (BOHLMANN, J? OR BOHLMANN J?)/AU
L3 37 S (CROTEAU, R? OR CROTEAU R?)/AU
L4 317 S (PHILLIPS, M? OR PHILLIPS M?)/AU
L5 1 S L1 AND L2 AND L3 AND L4
L6 422 S L1 OR L2 OR L3 OR L4
L7 2 S L6 AND CAMPHENE (W) SYNTHASE

=> s camphene(w) synthase

1261 CAMPHENE

15368 SYNTHASE

L8 3 CAMPHENE (W) SYNTHASE

=> s l8 not l7

L9 1 L8 NOT L7

=> d l9 bib

L9 ANSWER 1 OF 1 USPATFULL on STN
AN 2002:99102 USPATFULL
TI Directed evolution of biosynthetic and biodegradation pathways
IN Schmidt-Dannert, Claudia, Shoreview, MN, UNITED STATES
Arnold, Frances H., Pasadena, CA, UNITED STATES
PA CALIFORNIA INSTITUTE OF TECHNOLOGY (U.S. corporation)
PI US 2002051998 A1 20020502
AI US 2000-733759 A1 20001208 (9)
PRAI US 1999-169594P 19991208 (60)
US 2000-211894P 20000614 (60)
DT Utility
FS APPLICATION
LREP DARBY & DARBY P.C., 805 Third Avenue, New York, NY, 10022
CLMN Number of Claims: 31
ECL Exemplary Claim: 1
DRWN 13 Drawing Page(s)
LN.CNT 4167
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

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FILE 'USPATFULL' ENTERED AT 12:09:46 ON 02 AUG 2004

L1 66 S (STEELE, C? OR STEELE C?)/AU
L2 11 S (BOHLMANN, J? OR BOHLMANN J?)/AU
L3 37 S (CROTEAU, R? OR CROTEAU R?)/AU
L4 317 S (PHILLIPS, M? OR PHILLIPS M?)/AU
L5 1 S L1 AND L2 AND L3 AND L4
L6 422 S L1 OR L2 OR L3 OR L4
L7 2 S L6 AND CAMPHENE(W) SYNTHASE
L8 3 S CAMPHENE(W) SYNTHASE
L9 1 S L8 NOT L7

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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STN INTERNATIONAL LOGOFF AT 12:13:27 ON 02 AUG 2004